## Claims

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- 1. An adjustable multi-band antenna having a ground plane, a radiating plane with a dielectric support part, a feed conductor and a short conductor of the antenna, and an adjusting circuit to displace operation band of the antenna, which adjusting circuit comprises a parasitic element and a switch as well as a terminal element directly connected to the ground plane, by which switch the parasitic element can be connected to the terminal element; the adjusting circuit further comprising, for restricting the effect of controlling the switch to a single operation band of the antenna, a filter located electrically in series with the parasitic element and the switch.
- 2. An antenna according to claim 1, said single operation band being on passband of the filter and the other operation bands being on stopband of the filter.
- 3. An antenna according to claim 2, operation bands of which comprise at least a lower operation band and an upper operation band, said single operation band being the upper operation band, and the filter being a high pass filter, the cutoff frequency of which lies between the lower and upper operation bands.
- 4. An antenna according to claim 1, the filter locating electrically between the parasitic element and the switch so that the parasitic element is connected to filter's input by a conductor of a short transmission line and filter's output is connected to first terminal of the switch by a conductor of second short transmission line, the second terminal of the switch being fixedly connected to one conductor of a third short transmission line, the terminal element being in the opposite end of the third short transmission line.
- 5. An antenna according to claim 4, the terminal element being a short-circuit conductor.
  - 6. An antenna according to claim 4, the terminal element being a reactive structure part to set a displacement of an operation band as desired.
  - 7. An antenna according to claim 4, the switch being a two-way switch, from third terminal of which starts a conductor of fourth short transmission line, which fourth line is open at it's opposite end.
    - 8. An antenna according to claim 1, said parasitic element being a conductive strip being attached to said dielectric support part.

- 9. A radio device having an adjustable multi-band antenna, which comprises a ground plane, a radiating plane and an adjusting circuit to displace operation band of the antenna, which adjusting circuit comprises a parasitic element, a switch and a terminal element directly connected to the ground plane, by which switch the parasitic element can be connected to the terminal element;
- the adjusting circuit further comprising, for restricting the effect of controlling the switch to a single operation band of the antenna, a filter located electrically in series with the parasitic element and the switch.

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